

Docket No. 00-116-DSK

CLAIMS :

What is claimed is:

1. A virtual stored data management system; the virtual stored data management system comprising:

one or more hosts; and

a plurality of data storage elements functionally coupled to the one or more hosts, wherein the plurality of data storage elements include a host network attachment, a data transfer system, a storage server and/or controller, and a permanent data storage media, wherein the permanent data storage media is organized with management information uniquely associated with units of data such that the management information may be manipulated in several different locations within the virtual stored data management system.

2. The virtual stored data management system as recited in claim 1, wherein manipulation of the data comprises allowing an internal process to discover a current location of a data processing function.

3. The virtual stored data management system as recited in claim 1, wherein manipulation of the management information comprises allowing the location of the

4 manipulation of said management information to be changed
5 as directed by a host.

1 4. The virtual stored data management system as recited
2 in claim 1, wherein manipulation of the management
3 information comprises allowing the location of the
4 manipulation of said management information to be changed
5 as directed by internal process.

1 5. The virtual stored data management system as recited
2 in claim 1, wherein manipulation of the management
3 information comprises allowing the location of the
4 manipulation of said management information to be
5 replicated as directed by a host.

1 6. The virtual stored data management system as recited
2 in claim 1, wherein manipulation of the management
3 information comprises allowing the location of the
4 manipulation of said management information to be
5 replicated as directed by internal process.

1 7. The virtual stored data management system as recited
2 in claim 1, wherein manipulation of the management
3 information comprises allowing for processing of the
4 management information to be held consistent when
5 completed in more than one place substantially
6 simultaneously.

[illegible]

Docket No. 00-116-DSK

1 8. The virtual stored data management system as recited
2 in claim 1, wherein at least part of the management
3 information manipulation is performed at a node in a
4 connecting network.

1 9. The virtual stored data management system as recited
2 in claim 1, wherein at least part of the management
3 information manipulation is performed at a node in a
4 storage server.

1 10. The virtual stored data management system as recited
2 in claim 1, wherein at least part of the management
3 information manipulation is performed at a node in a
4 storage controller.

1 11. The virtual stored data management system as recited
2 in claim 1, wherein at least part of the management
3 information manipulation is performed at a node in a
4 storage element.

1 12. The virtual stored data management system as recited
2 in claim 1, wherein at least part of the management
3 information associated with units of data is stored at a
4 node in the storage media.

1 13. The virtual stored data management system as recited
2 in claim 12, wherein the storage media includes
3 robotically controlled removable media.

1 14. The virtual stored data management system as recited
2 in claim 12, wherein the storage media includes a newly
3 acquired removable media.

1 15. The virtual stored data management system as recited
2 in claim 1, further comprising:
3 discovery means for discovering one or more of the
4 plurality of storage elements.

1 16. The virtual stored data management system as recited
2 in claim 15, wherein the discovery means work in parallel
3 with management information processing.

1 17. The virtual stored data management system as recited
2 in claim 1, wherein the manipulation of the management
3 information comprises a change of location.

1 18. The virtual stored data management system as recited
2 in claim 17, wherein the change of location includes a
3 promotion toward a using host.

[illegible]

[illegible]

23. The virtual stored data management system as recited in claim 1, wherein manipulation of the management information comprises modification of the management information in several locations in the virtual stored data management system.